

88-116706/17 LION CORP 05.09.86-JP-208969-(22.03.88) C11d-01/72 C11d-07/50 C11d-10/12	E19 C04 LIOY 05.09.86 *J6 3063-799-A	E(5-B, 5-G9D, 10-A987, 10-A988, 10-C4C, 10-C4L, 10-E4K, 10-E4M3) G(4-88)
Emulsifier compsn. for dry-cleaning solvent - comprises polyoxyethylene nonionic activator and e.g. carboxylic acid cpd. for highly stable water emulsion C 88-052625	A new emulsifier compsn. for dry-cleaning solvents contains (A) 5-70 wt. % of a nonionic activator of formula (I) and (B) one or more cpds. of formulae (II) to (V) with a (B)/(A) ratio of 0.05-0.7.	$  \begin{array}{c}  \text{R}_8 \text{O} - (\text{CH}_2\text{CH}_2\text{O})_{n_1} - \text{P} \begin{array}{c} \text{O} \\   \\ \text{X}_1 \end{array} \begin{array}{c} \text{Y}_1 \\   \\ \text{O} \end{array} \\  \text{R}_1 - \text{O} - \text{CH}_2\text{CH}_2\text{O} - \text{H} \quad (\text{I}) \\  \text{R}_3 - \text{COO} - (\text{CH}_2\text{CH}_2\text{O})_{n_2} - \text{H} \quad (\text{II}) \\  \text{R}_5 - \text{COOM}_1 \quad (\text{III}) \quad \text{R}_6 \quad \text{X} - \text{SO}_3\text{M}_2 \quad (\text{IV}) \\  \text{R}_7 \quad   \\  \text{R}_7 - \text{H} \text{ or } \text{alkali(ne earth) metal}  \end{array} \quad (\text{V})  $ <p> <math>\text{R}_1 = 8\text{-}20\text{C}</math> alkyl or alkenyl gp. or <math>(8\text{-}20\text{C}</math> alkyl gp.)-substd. phenyl gp.;  <math>n_1 = 2\text{-}20</math>;   </p>

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$\text{R}_2 = \text{H}$  or  $\text{CH}_3$ ;  
 $\text{R}_3 = 8\text{-}20\text{C}$  alkyl or alkenyl gp. or  $8\text{-}20\text{C}$  alkyl or alkenyl gp. or  $(8\text{-}20\text{C}$  alkyl gp.)-substd. phenyl gp.;  
 $n_2 = 2\text{-}20$ ;  
 $\text{R}_4 = \text{H}$  or  $\text{CH}_3$ ,  
 $\text{R}_5 = 8\text{-}20\text{C}$  alkyl or alkenyl or  $(8\text{-}20\text{C}$  alkyl)-substd. phenyl,  
 $\text{M}_1 = \text{Ca, Al or Mg.}$   
 $\text{X} = (\text{i})$  or  $(\text{ii})$ .  
 $\text{R}_6, \text{R}_7 = \text{H}$  or  $8\text{-}22\text{C}$  alkyl or alkenyl (they may be same of different but they are not both II)  
 $\text{M}_2 = \text{alkali(ne earth) metal,}$   
 $\text{R}_8 = 8\text{-}20\text{C}$  alkyl or alkenyl,  
 $n_3 = 0\text{-}10$ ;  
 $\text{X}_1, \text{Y}_1 = \text{OM}_1$  or  $-(\text{OCH}_2\text{CH}_2)_{n_1}-\text{OR}_8$  and  
 $\text{M}_3 = \text{H}$  or  $\text{alkali(ne earth) metal.}$

### USE/ADVANTAGE

The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flax, etc. (6ppDwgNo0/0).

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